

OHS25240

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MDL INFORMATION SYSTEMS, INC.
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EMERGENCY TELEPHONE NUMBER:
1-800-424-9300 (NORTH AMERICA)
1-703-527-3887 (INTERNATIONAL)

SUBSTANCE: ZINC ACETATE

TRADE NAMES/SYNONYMS:

ACETIC ACID, ZINC SALT; ZINC DIACETATE; C4H6O4ZN; OHS25240; RTECS AK1500000

CHEMICAL FAMILY: inorganic, salt

CREATION DATE: Jul 09 1986

REVISION DATE: Mar 22 2001

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: ZINC ACETATE
CAS NUMBER: 557-34-6
EC NUMBER (EINECS): 209-170-2
PERCENTAGE: 100.0

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=0 REACTIVITY=0

EMERGENCY OVERVIEW:

COLOR: white

PHYSICAL FORM: crystals

MAJOR HEALTH HAZARDS: eye irritation

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: no information is available

LONG TERM EXPOSURE: no information is available

SKIN CONTACT:

SHORT TERM EXPOSURE: burns

LONG TERM EXPOSURE: no information on significant adverse effects

EYE CONTACT:

SHORT TERM EXPOSURE: irritation (possibly severe)

LONG TERM EXPOSURE: same as effects reported in short term exposure

INGESTION:

SHORT TERM EXPOSURE: nausea, vomiting, diarrhea

LONG TERM EXPOSURE: digestive disorders

CARCINOGEN STATUS:

OSHA: No

NTP: No

IARC: No

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

INGESTION: If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

ANTIDOTE: calcium disodium edetate/dextrose, intravenous; calcium disodium edetate/procaine, intramuscular.

NOTE TO PHYSICIAN: For ingestion, consider gastric lavage. Consider oxygen.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep

out of low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SOIL RELEASE:

Dig holding area such as lagoon, pond or pit for containment. Cover with plastic sheet or tarp to minimize spreading and protect from contact with water.

WATER RELEASE:

Add an alkaline material (lime, crushed limestone, sodium bicarbonate, or soda ash). Neutralize. Collect spilled material using mechanical equipment.

OCCUPATIONAL RELEASE:

Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

ZINC ACETATE:

No occupational exposure limits established.

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any dust, mist, and fume respirator.

Any air-purifying respirator with a high-efficiency particulate filter.

Any powered, air-purifying respirator with a dust, mist, and fume filter.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

For Unknown Concentrations or Immediately Dangerous to Life or Health -

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: white

PHYSICAL FORM: crystals

ODOR: Not available

TASTE: sour taste

MOLECULAR WEIGHT: 183.47

MOLECULAR FORMULA: $(C_2H_3O_2)_2.ZN$

BOILING POINT: Not applicable

MELTING POINT: Not available

DECOMPOSITION POINT: 392 F (200 C)

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

SPECIFIC GRAVITY (water=1): 1.84

WATER SOLUBILITY: 30% @ 20 C

PH: 5-6 (aqueous solution)

VOLATILITY: Not applicable

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:

Soluble: alcohol

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.

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Avoid contact with incompatible materials.

INCOMPATIBILITIES:

ZINC ACETATE:

No data available.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: miscellaneous decomposition products, oxides of zinc

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

ZINC ACETATE:

TOXICITY DATA:

2510 mg/kg oral-rat LD50; 57 mg/kg intraperitoneal-mouse LD50; 5 mg/kg intravenous-rabbit LDLo; 56 mg/kg/7 day(s) intermittent intraperitoneal-rat TDLo

LOCAL EFFECTS:

Irritant: eye

ACUTE TOXICITY LEVEL:

Moderately Toxic: ingestion

MUTAGENIC DATA:

mutation in microorganisms - mouse lymphocyte 24 ug/plate (+S9); cytogenetic analysis - hamster ovary 45 mg/L; mutation in mammalian somatic cells - mouse lymphocyte 10 mg/L

REPRODUCTIVE EFFECTS DATA:

80 mg/kg subcutaneous-rat TDLo 1 day(s) male; 10525 ug/kg intravaginal-rabbit TDLo 1 day(s) pre pregnancy continuous

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

ZINC ACETATE: No data available.

CHRONIC EXPOSURE:

ZINC ACETATE: No data available.

SKIN CONTACT:

ZINC ACETATE: See information on zinc salts.

ACUTE EXPOSURE:

ZINC SALTS: Soluble zinc salts are astringent and corrosive and may be easily absorbed through the skin.

CHRONIC EXPOSURE:

ZINC SALTS: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

ZINC ACETATE: May cause severe irritation or burns.

CHRONIC EXPOSURE:

ZINC ACETATE: Repeated or prolonged exposure to irritants may cause conjunctivitis.

INGESTION:

ZINC ACETATE: See information on zinc salts.

ACUTE EXPOSURE:

ZINC SALTS: Small doses may cause nausea and vomiting. In addition to these symptoms, large doses may cause fever, stomach cramps, diarrhea, and fatal collapse due to serious damage to the buccal and gastroenteric mucous membranes.

CHRONIC EXPOSURE:

ZINC SALTS: Continued administration of small doses may cause digestive disorders and constipation.

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FISH TOXICITY: 960 ug/L 8 hour(s) EC50 (Abnormality) Fathead minnow
(Pimephales promelas)

INVERTEBRATE TOXICITY: 125 ug/L 2 week(s) (Histology) Shore or green crab
(Carcinus maenas)

ALGAL TOXICITY: 120 ug/L 24 hour(s) EC50 (Population Size Reduction) Green
algae (Ankistrodesmus falcatus acicul)

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

LAND TRANSPORT ADR/RID: No classification assigned.

AIR TRANSPORT IATA/ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

ZINC ACETATE: 1000 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):

Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):

ZINC ACETATE

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Not determined.

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED):

Xi Irritant

DANGER/HAZARD SYMBOL:

Xi Irritant

EC RISK AND SAFETY PHRASES:

R 36 Irritating to eyes.

S 2 Keep out of reach of children.

S 24 Avoid contact with skin.

S 25 Avoid contact with eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 46 If swallowed, seek medical advice immediately and show this container or label.

GERMAN REGULATIONS:

WATER HAZARD CLASS (WGK):

STATE OF CLASSIFICATION: Annex 3

CLASSIFICATION UNDER HAZARD TO WATER: 1

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

SECTION 16 OTHER INFORMATION

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